

Table S1 *S. pseudopneumoniae* molecular marker candidates

IS7493 Locus tag	Annotation	CDS length (bp)	BLAST hits in other species ^a
SPPN_RS00255	hypothetical protein	313	<i>Mycobacterium tuberculosis</i>
SPPN_RS00500	Cbp2	898	<i>S. pneumoniae</i>
SPPN_RS00555	Cbp4	1188	<i>S.pneumoniae, S. mitis</i>
SPPN_RS00560	C/BlpC family peptide pheromone/bacteriocin associated with T1	147	<i>S. mitis</i>
SPPN_RS00565	HK14	1290	<i>S. mitis</i>
SPPN_RS00635	ethanolamine utilization protein EutH	151	<i>S. mitis</i>
SPPN_RS00640	class IIb bacteriocin	194	<i>S. mitis, S. oralis</i>
SPPN_RS02030	thiol-activated cytolsin	1912	<i>S.pneumoniae, S. mitis</i>
SPPN_RS02225	CbpF	993	<i>S. oralis</i>
SPPN_RS02970	toxin Fic	996	<i>Streptococcus sp. M334, S. oralis, S. infantis, S. mitis</i>
SPPN_RS03570	RR16	726	<i>S. canis</i>
SPPN_RS04580	twin-arginine translocase subunit TatC	732	<i>S. mitis</i>
SPPN_RS04585	twin-arginine translocase TatA/TatE family subunit	171	<i>S. mitis</i>
SPPN_RS04595	RelB antitoxin	328	<i>S. mitis</i>
SPPN_RS04720	hypothetical protein	440	<i>S. mitis</i>
SPPN_RS06420	aminotransferase class V-fold PLP-dependent enzyme	352	-
SPPN_RS06710	LTA synthase family protein	2151	<i>S. mitis</i>
SPPN_RS07710	molybdopterin biosynthesis protein MoeB	1134	<i>Streptococcus sp. M334</i>
SPPN_RS07720	ABC transporter permease	718	<i>Chlamydia</i>
SPPN_RS08060	type II toxin-antitoxin system RelE/ParE family toxin	351	<i>S.pneumoniae, S. mitis</i>
SPPN_RS08065	XRE family transcriptional regulator	288	<i>S. mitis</i>
SPPN_RS08575	ArsR family transcriptional regulator	287	<i>S. mitis</i>
SPPN_RS08580	CPBP family intramembrane metalloprotease	900	<i>S. mitis</i>
SPPN_RS08950	LrgB family protein	696	<i>S. mitis</i>
SPPN_RS09290	7-cyano-7-deazaguanine synthase	654	<i>S.pneumoniae, S. mitis</i>
SPPN_RS09295	6-carboxytetrahydropterin synthase QueD	444	<i>S. mitis</i>
SPPN_RS09630	ABC transporter ATP-binding protein	1737	<i>S. mitis</i>
SPPN_RS10230	XRE family transcriptional regulator	919	<i>S. mitis, S. oralis</i>
SPPN_RS10375	hypothetical protein	240	-
SPPN_RS10785	Toxic anion resistance protein (TelA)	1248	<i>S. mitis</i>

^a Species in which BLASTp hits were found. The presence of each candidate was also tested by BLASTn against the 8,358 *S. pneumoniae* NCBI genomes.